

KLIMKOVICH, I.G.

Role and importance of potentiated anesthesia in bronchoscopy.

Vest.oto-rin. 20 no.6:121-122 M-D '58

(MIRA 11:12)

1. Iz 2-go khirurgicheskogo otdeleniya Tsentral'noy klinicheskoy
bol'nitsy Ministerstva puty soobshcheniya i 4-y kafedry khirurgii
(sav. - prof. V.I. Kasanskiy) Tsentral'nogo instituta usovershenstvo-
vaniya vrachev.

(BRONCHOSCOPY)

(ANESTHESIA)

MAKARENKO, T.P., prof.; KLIMKOVICH, I.G.

Spontaneous aneurysm of the ulnar artery as a complication of rheumatic vasculitis. Khirurgiya 34 no.3:109-111 Mr '58. (MIRA 12:1)

1. Iz 4-y khirurgicheskoy kliniki (dir. - prof. V.I. Kazanskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey na baze Tsentral'noy klinicheskoy bol'nitsy Ministerstva putey soobshcheniya (nach. V.M. Zakharchenko)..

(RHEUMATIC HEART DISEASE, compl.

vasculitis & spontaneous aneurysm of ulnar artery (Rus))

(ARTERIES, BRACHIAL, aneurysm

ulnar, in rheum. heart dis. with vasculitis (Rus))

(VASCULAR DISEASES, PERIPHERAL, compl.

aneurysm of ulnar in rheum, vasculitic (Rus))

KLIMEKOVICH, I.G., MALYSHEV, V.D.

Tracheobronchoscopy using anesthesia and muscle relaxants; preliminary report [with summary in English]. Khirurgiya 34 no.6:78-83 Je '58

(MIRA 11:8)

1. Is 4-y kafedry klinicheskoy khirurgii (sav. - prof. V.I. Kasanskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey na baze Tsentral'noy klinicheskoybol'nitsy (nach. V.N. Zakharchenko) Ministerstva puty soobshcheniya.

(BRONCHOSCOPY, anesthesia & analgesia

anesth. with added musc. relaxants, technic & results

(Rus))

(ANESTHESIA,

in bronchoscopy, added use of musc. relaxants (Rus))

(MUSCLE RELAXANTS, therapeutic use

adjuvant in anesth. for bronchoscopy, technic & results

(Rus))

KLIMKOVICH, I.O.

Bronchoscopy under intravenous anesthesia in combination with muscle relaxants. Akt. vop. obesbol. no.2:97-104 '59.

(MIRA 14:5)

1. Iz Tsentral'noy klinicheskoy bol'nitsy Ministerstva puty soobshcheniya i Iv Kafedry khirurgii (sav. prof. V.I. Kazanskiy) Tsentral'nogo instituta usovershenstvovaniya vrachev.

(BRONCHOSCOPY)

(INTRAVENOUS ANESTHESIA)

(MUSCLE RELAXANTS)

KLIMKOVICH, I. G., kand. med. nauk; PASTERSTNIK, L. A.; FINKEL'SON, Ye. I.

Splenoportography in surgery on children. Khirurgiya no. 6:
100-103 Ja '62. (MIRA 15:7)

1. Iz kafedry detskoy khirurgii (zav. - prof. S. Ya. Dolatskiy)
TSentral'nogo instituta usovershenstvovaniya vrachev i Detskoy
klinicheskoy bol'nitsy imeni I. V. Rusakova (glavnyy vrach -
zasluzhennyy vrach RSFSR dotsent V. A. Krashkov)

(SPLEEN—RADIOGRAPHY)
(PORTAL VEIN—RADIOGRAPHY)

KLDKOVICH, I.G., kand.med.nauk; PASHKOVNIK, L.A. (Moskva, Bol'shoy
Vlas'yevskiy per., d.10, kv.5)

Use of relaxants of brief action in splenoportography in children.
Klin.khir. no.9:53-56 S '62. (MIRA 16:5)

1. Kafedra detakoy khirurgii (sav. - prof. S.Ya. Doletskiy)
TSentral'nogo instituta usovershenstvovaniya vrachev i Detskaya
gorodskaya klinicheskaya bol'nitsa imeni I.V. Musakova, Moskva.
(MUSCLE RELAXANTS) (SPLEEN—RADIOGRAPHY)
(PORTAL VEIN—RADIOGRAPHY)

KLIMKOVICH, I.G., kand.med.nauk (Moskva, Platforma Yausa, d.6, kv.30)

Tracheostenosis in a case of tracheal bronchus. Vest.khir. 89
no.11:139-141 N '62. (MIRA 16:2)

1. Is kafedry detskoy khirurgii Tsentral'nogo instituta usov-
ersheniye vovaniya vrachev (sav. - prof. S.Ya. Doletakiy) na
baze detskoy klinicheskoy bol'nitsy imeni Rusakova (glavnyy
vrach - zasluzhennyy vrach RSFSR V.A. Krushkov).

(TRACHEA---ABNORMALITIES AND DEFORMITIES)
(BRONCHI---ABNORMALITIES AND DEFORMITIES)

DOLETSKIY, S.Ya., prof.; KLIMKOVICH, I.G., kand.med. nauk

Developmental anomalies of the respiratory system in children.
Khirurgiia 39 no.4:6-15 Ap'63 (MIRA 17:2)

1. Iz kafedry detakoy khirurgii (zav. - prof. S. Ya. Doletskiy)
Tsentral'nogo instituta usovershenstvovaniya vrachey na baze
Detakoy klinicheskoy bol'nitsy imeni I.V.Risakova (glavnyy vrach
M.M.Kraseva).

KLIMKOVICH, I.G.; STOL'TSER, E.E. (Moskva, Zh-28, Pokrovskiy bul'var, d.8. kv.5).

Atelectasis following operations on the lungs in children. Grudn. khir. 5 no.4:61-67 J1-Ag'63 (MIRA 17:1)

1. Iz kliniki detskoy khirurgii (sav. - prof. S. Ya. Doletskiy) Tsentral'nogo instituta usovershenstvovaniya vrachey i Detskoy gorodskoy klinicheskoy bol'nitsy No.2 imeni I.V.Rusakova (glavnyy vrach - dotsent V.A. Krushkov).

ARENDA, A.A., prof.; ARTARYAN, A.A., kand.med.nauk; BAIRC, G.A., prof.;
VOLKOV, M.V., prof.; VARSHAVSKAYA, D.Ya., kand. med. nauk;
VOROKHOBOV, L.A.; GENERALOV, A.I., kand. med. nauk;
DANIYEL'BEK, K.V., kand. med. nauk; DERZHAVIN, V.M., kand.
med. nauk; DOLETSKIY, S.Ya., prof.; YERMOLIN, V.N.; ZATSEPIN,
S.T., kand. med. nauk; ZVYAGINTSEV, A.Ye., dots.; ISAKOV, Yu.F.,
doktor med. nauk; KOZYREV, V.A., kand. med. nauk; KONOVALOV,
A.N.; KORYANSKIY, O.P., prof.; KLIMANSKIY, V.A., kand. med.
nauk; KLIMKOVICH, I.G., dots.; KONIRASHIN, N.I., kand. med.
nauk; LEVINA, O.Ya., kand. med. nauk; LENYUSHKIN, A.I., kand.
med. nauk; LEYBZON, N.D., doktor med. nauk; MALININA, L.I.,
doktor med. nauk; MAREYEVA, T.G., kandidat meditsinskikh
nauk; NERSESYANTS, S.I., kand. med. nauk; OVCHINNIKOV, A.A.;
OGLEZNEV, K.Ya., kand. med. nauk; ROSTOTSKAYA, V.I., kand.
med. nauk; STEPANOV, E.A., kand. med. nauk; EPSHTEYN, P.V.;
OSTROVERKHOV, G.Ye., prof., glav. red.; DOMBROVSKAYA, Yu.F.,
prof., otv. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po
pediatrii. Moskva, Meditsina. Vol.9. [Pediatric surgery] Khir-
urgiya detskogo vozrasta. Red.toma S.IA.Doletskii. 1964. 654 p.
(MIRA 17:9)

1. Deystvitel'nyy chlen AMN SSSR (for Dombrovskaya). 2. Chlen-
korrespondent AMN SSSR (for Bairov, Volkov).

KLEMKOVICH, I.G., kand. med. nauk (Moskva, A-171, 1-y Vojkovskiy
proyezd, 16, kv.41)

Characteristics of bronchoscopy in children. Vest. kniz. 92
no.4:112-117 Ap '64 (MIRA 18:1)

1. Iz kafedry detskoy khirurgii (zav. - prof. S. Ya. Doletskiy)
TSentral'nogo Instituta usovershenstvovaniya vrachev (rektor -
M.D. Kovrigina) na baze detskoy bol'nitsy No.2 imeni Rudakova
(glavnyy vrach - zasluzhennyy vrach RSFSR V.A. Krut'kov).

KLIMKOVICH, M. S. Cand Tech Sci -- (diss) "Study of the elastic properties of aluminosilicate masses." Dnepropetrovsk, 1959. 20 pp (Min of Higher and Specialized Secondary Education UkrSSR. Dnepropetrovsk Order of Labor Red Banner Metallurgical Inst im I. V. Stalin), 200 copies (KL, 46-59, 137)

-31-

15 2610

32778

S/137/61/000/012/003/149
A006/A101

AUTHORS: Zegzhda, D.P., Klinkovich, N.S.

TITLE: The dependence of elastic properties of alumo-silicate masses on the nature of the depleting agent and bond

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 4, abstract 12B20 ("Sb. nauchn. tr. Dnepropetr. metallurg. in-t", 1959, no. 38, 101 - 111)

TEXT: It was established that changes in the chemical and mineralogical composition of the depleting agent and the bond caused changes in the nature of the dependence between the modulus of elasticity and the grain composition because 1) in the case of masses with quartzite, changes in the modulus of elasticity do practically not depend on temperature (such a phenomenon was not observed when investigating refractory masses); 2) at all roasting temperatures, the modulus of elasticity increased to maximum values at a content of fractions of < 0.088 mm equal to 20% (for refractory masses the maximum value of the modulus of elasticity was shifted to 30 - 40% content of fine fraction depending on the roasting temperature); 3) the degree of variation in the values of the modulus

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S/137/61/000/012/003/149
A006/A101

The dependence of elastic properties ...

of elasticity with a changing content of fine fractions is considerably higher for masses with quartzite than for refractory masses, when changes in the modulus of elasticity proceed smoothly. The investigation has shown that the presence or absence of various admixtures and differences in the structure of the initial raw material may exert a decisive effect on the formation of elastic properties of alumo-silicate articles at equal technological parameters of manufacture. x

V. Oparysheva

[Abstracter's note: Complete translation]

Card 2/2

KLIMKOVICH, T.I.

X-ray diagnosis of cancerous caries. Zdrav. Bel. 9 no.6:7-9 Je '63.
(MIRA 17:5)

1. Iz kafedry rentgenologii (zaveduyushchiy - prof. B.M. Sosina)
Belorusskogo instituta usovershenstvovaniya vrachey (rektor - dotsent
N. Ye. Savchenko) na baze Minskoy oblastnoy bol'nitsy (glavnyy vrach
M.I. Kotovich).

KLIMKOVICH, V.A., starshiy prepodavatel'

Accuracy of the topographic foundation for planning underground
communications. Izv. vys. ucheb. zav.; geod. i aerof. no.3;
29-36 '63. (MIRA 17:1)

1. Chelyabinskiy politekhnicheskii institut.

L 08900-67

SOURCE CODE: UK/0000/66/000/000/0202/0211

ACC NR: ATG020900

AUTHOR: Tal'ko-Grintsevich, P. P.; Klinkovich, V. I.; Verkhoturova, L. Ya.

ORG: none

TITLE: Methods of testing small ferrite samples at a constant current

SOURCE: Vsesoyuznoye soveshchaniye po ferritam. 4th, Minsk. Fizicheskiye i fiziko-khimicheskiye svoystva ferritov (Physical and physicochemical properties of ferrites); doklady soveshchaniya. Minsk, Nauka i tekhnika, 1966, 202-211

TOPIC TAGS: ferrite, magnetic property, magnetization, hysteresis loop, temperature dependence, heat resistant material, Curie point, statistical analysis

ABSTRACT: Small ferrite samples of the "oxifer" group were tested for magnetic and thermomagnetic properties on a specially designed apparatus consisting of a photoelectric fluxmeter, a unit for regulating the magnetization current, and an x-y recorder. Equations were given for deriving the magnetic hysteresis characteristics from geometrical and structural parameters. The deviation of hysteresis loops from an ideally rectangular shape is related to the Gaussian probability parameters μ_1 and μ_2 . From a commutation curve, the dependence of the permeability on the magnetic field (H) was obtained. The maximum permeability occurred at $\frac{1}{2}H_0 \leq H \leq 2H_0$, where H_0 is the coercive force. Limiting hysteresis curves were presented for fields which were 7-9 times

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L 08900-67

ACC NR: AT6028988

greater than H_0 . Heat resisting ferrites were tested in a TS-15 thermostat, after placing the samples in a copper cylinder filled with transformer oil. The temperature dependence of $1/H \, dH/dT$, $1/B \, dB/dT$, and $1/a \, da/dT$ was given; where $a = B_r/B_m$ and B_r is the residual inductance, and B_m is the maximum inductance. On the average, H_0 changed 0.1 %/deg. Curie point determinations of high accuracy were made with the photoelectric fluxmeter. The Curie points of heat resistant and ordinary ferrites were identical. A statistical analysis was done on experimental values of H_0 and B_m obtained from a column containing 50 small samples. The deviation of B_m and H_0 from the arithmetic mean did not exceed 5%. Orig. art. has: 7 figures, 2 tables, 9 formulas.

SUB CODE: 09,11/

SUBM DATE: 22Dec65/

ORIG REF: 005/

OTH REF: 001

Card 2/2 *plm*

OBLOZHENKO, R.V.; GRANDENIC, I.I.; KLIMKOVICH, V.V.

Preparation of 1-(3'-sulfo-4' phenoxyphenyl)-3-stearoylamino-5-pyrazolone. Zhur.prikl.khim. 35 no.5:1159-1161 My '62.

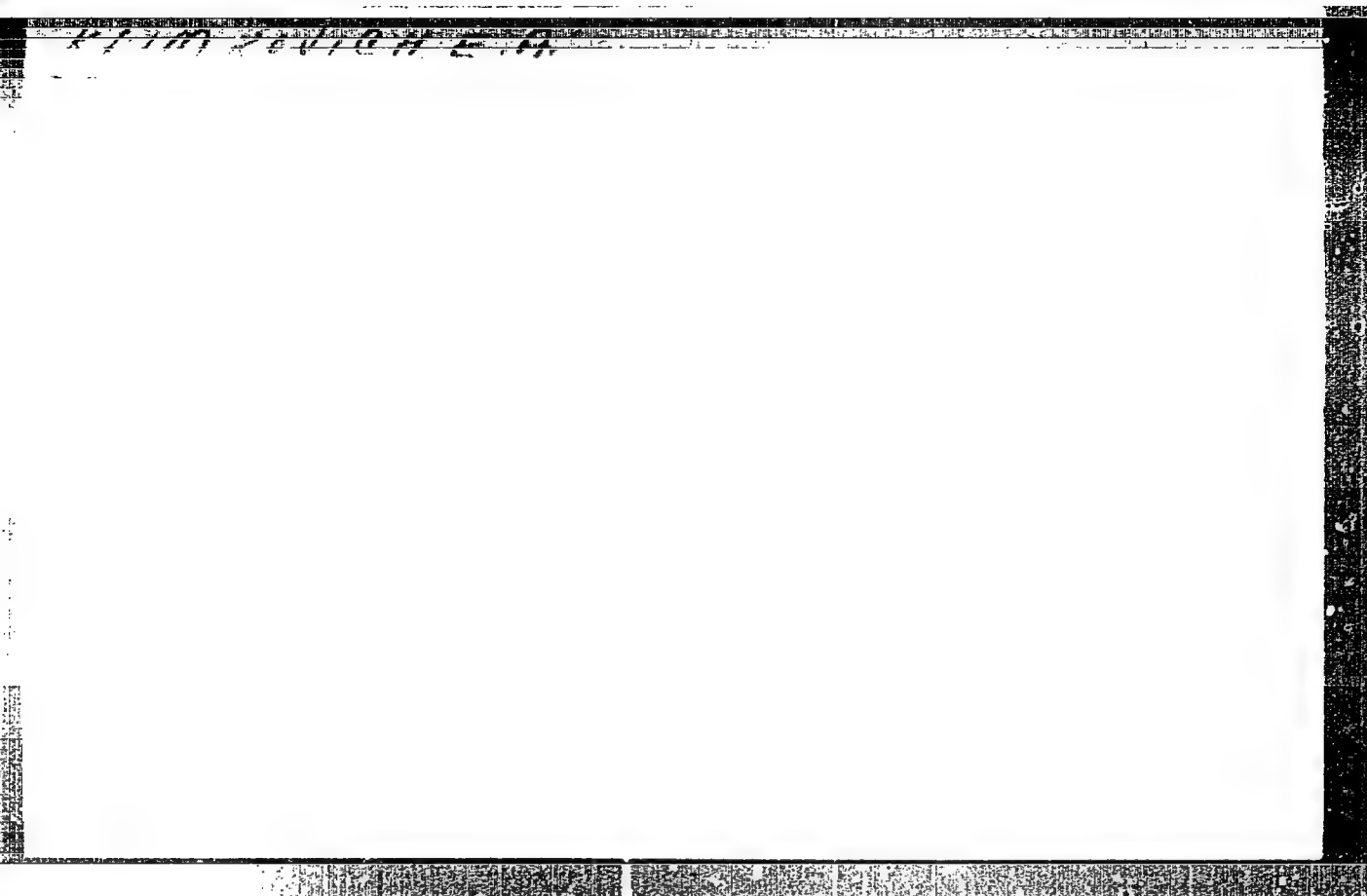
(MIRA 15:5)

1. Eksperimental'nyy savod krasiteley i Moskovskiy gosudarstvennyy universitet.

(Pyrazolinone)

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723120010-5



APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723120010-5"

KLIMKOVICH; EA.

Klim Kovich, Ye. H.

Category: USSR / Analytical Chemistry - Analysis of inorganic substances.

G-2

Abstr Jour: Referat Khim. Khimiya, No 9, 1957, 30996

Author : Usatenko Yu. I., Klimovich Ye. A.

Inst : not given NEPRIPETROVSKA Chem. Tech. Inst in F.E. DZHERZHINSKIY, Ch. Anal. Chem.

Title : Direct Determination of Chromium in Chromite by Means of Sintering

Orig Pub: Ukr. khim. zh., 1956, 22, No 5, 670-672

Abstract: A rapid method is proposed for decomposing chromite (I) by means of a short duration sintering with small amounts of a mixture of soda lime, or MgO, and Na_2CO_3 , and subsequent determination of the Cr(6+) that is formed by titration with a solution of FeSO_4 in the presence of phenyl-anthranilic acid. 0.2 g finely ground I are well mixed with 0.6 g soda lime, which has been calcined at 600-700°, and 0.4 g Na_2CO_3 (or with 0.4 g MgO and 0.4 g Na_2CO_3). The mixture is placed into a Pt-crucible, the bottom of which has been covered with a thin layer of CaO or MgO.

Card : 1/2

-30-

KLIMKOVICH, Ye. A., Cand of Chem Sci -- (diss) "Separation of chromides and magnesium chromate by the sintering method and the determination of chromium in them." Dnepropetrovsk, 1957, 15 pp (Dnepropetrovsk Chemical Engineering Institute im F. E. Dzerzhinskiy, Chair of Analytical Chemistry) 200 copies (KL, 37-57, 102)

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 275 (USSR) SOV/137-59-1-2096

AUTHORS: Usatenko, Yu. I., Klimkovich, Ye. A.

TITLE: Sodium Versenate Method for the Photo-colorimetric Determination of Chromium in Chromite (Primeneniye trilonu B dlya fotokolorimetricheskogo opredeleniya khroma v khromistom zheleznyake)

PERIODICAL: Tr. Komis. po analit. khimii AN SSSR, 1958, Vol 8 (11), pp 169-177

ABSTRACT: The reddish-violet coloration of the sodium versenate (I) complex with Cr^{3+} is utilized for the photometric determination of Cr in chromites (C). It is shown that the reaction of Cr^{3+} with I proceeds upon 1 min heating with a 1000% excess of I at pH 4. The molar I-Cr neutralization factor is 150. Ca, Mg, Al, Fe, Cu, and H_2SiO_3 do not impede the reaction. 0.2 g of finely ground C is mixed with 0.6 g soda lime and 0.4 g Na_2CO_3 and sintered at 1100°C for 10-15 min in a Pt crucible, the bottom of which is first covered with CaO or MgO. The cake is transferred into a flask, wetted with water and dissolved in 25 cc HCl (1:1), or, in case it was sintered with MgO, in 40 cc H_2SO_4 (1:4). The solution is placed into a 100-cc flask and diluted

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SOV/137-59-1-2096

Sodium Versenate Method for the Photo-colorimetric Determination (cont.)

to the mark. 10 cc of the solution are taken for the reduction of Cr^{6+} to Cr^{3+} & Fe^{3+} to Fe^{2+} , 0.2 - 0.3 g Na sulfite are added, and the whole is boiled for 1 min. 20 cc of 0.1-M solution of I are added and upon heating to 60-80°C it is neutralized with concentrated NH_4OH ; at the end of the reaction the red-violet coloring turns into blue-violet, indicating the formation of the I-Cr complex. The solution is boiled for one more minute, cooled, transferred into a 100-cc flask, diluted to the mark with a buffer mixture (20 cc 2N CH_3COONa and 80 cc 2N CH_3COOH), mixed and read on the photocolormeter using a green light filter.

A. M.

Card 2/2

USATENKO, Yu. ~~Zy~~ KLIMKOVICH, Ye. A.

Decomposition of chromium magnesites by sintering. Zav. lab.
no. 11:1295-1296 '59. (MIRA 13:4)

1. Dneptopetrovskiy khimiko-tekhnologicheskoy institut im. P. E.
Dzerzhinskogo.
(Chromium ores -- Analysis)

USATENKO, Yu.I.; KLIMKOVICH, Ia.A.

Reaction of the constituents of chromite during its sintering
with various substances. Ukr. khim. zhur. 26 no.2:254-259
'60. (MIRA 13:9)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut im.
F.F. Dzerzhinskogo, kafedra analiticheskoy khimii.
(Chromite)

USATENKO, Yu.I.; KLIMKOVICH, Ye.A.; LOSHKAREV, Yu.M.

Amperometric titration of mercury with unithiol solution.
Ukr.khim.zhur. 27 no.6:823-827 '61. (MIRA 14:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut.
(Mercury-Analysis)

USATENKO, Yu.I.; KLEKOVICH, Ye.A.; CHEBOTAROVA, L.V.

Complex formation of mercury and silver with ethylenethiourea
and their amperometric titration. Ukr. khim. zhur. 30 no.9:
979-983 '64. (MIRA 17:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut.

KATRECHKO, V.I., inzh.; KLIMKOVSKAYA, S.S., tekhn.

Austenite electrodes with decreased toxicity. Svar. proizv. no.9:
28 S '65. (MIRA 18:9)

1. Khar'kovskiy zavod transportnogo mashinostroyeniya im.
A.A.Malyshova.

KLIMKOVSKIY, B.M.; TKACHENKO, A.S.

Improving the transmission of rolls on cold rolling pipe
mills. Metallurg 9 no.4:36-37 Ap '64. (MIRA 17:9)

1. Institut chernoy metallurgii AN UkrSSR.

KLIMKOVSKIY, B.M.; MA'KIN, A.S.; TKACHENKO, A.S.

Modernisation of the fastening of rolls on mills for the cold
rolling of pipe. Metallurg 9 no.11:28 N '64.

(MIRA 18:2)

ACC NR: AP6035819

SOURCE CODE: UR/0413/66/000/020/0019/0019

INVENTOR: Klimkovskiy, B. M.; Tkachenko, A. S.; Bondarenko, A. G.; Stepanov, I. V.

ORG: None

TITLE: A device for balancing forces of inertia. Class 7, No. 186952

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 20, 1966, 19

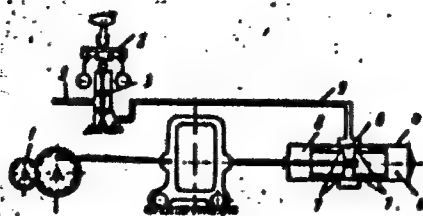
TOPIC TAGS: rolling mill, cold rolling, pneumatic servomechanism

ABSTRACT: This Author's Certificate introduces: 1. A device for balancing the forces of inertia generated during reciprocating motion of the stand in a cold-rolling tube mill. The unit contains compensating pneumatic cylinders with pistons. The initial pressure is automatically controlled with respect to the rate of rolling. The installation is equipped with a centrifugal pressure regulator connected to the drive shaft of the stand. The regulator valve connects the compensating cylinders to the air line. 2. A modification of this device in which the make-up feed to the compensating cylinders is simplified and made more reliable by elongating the piston slides which act as the make-up valve and equipping them with ports which connect the cylinder cavities to the make-up line.

Card 1/2

UDC: 621.771.06-755-589.4

ACC NR: AP6035819



1—drive shaft of the stand; 2—centrifugal pressure regulator; 3—valve; 4—compensating cylinders; 5—air line; 6—piston slide; 7—ports; 8—cylinder cavities; 9—make-up line

SUB CODE: 13/ SUBM DATE: 04Sep65

Cord 2/2

KLIMOVSKIY, B.M.; TRACHENKO, V.S.; ZILBER, A.S.

Modernization of the supporting part of a stand of a cold
pipe-rolling mill. Metallurg 10 no.7:40 31 '61.

(NDA 18:7)

KLIMEVSKIY, B.M.; TKACHENKO, A.S.

Investigating the performance of a dial-feed mechanism
on cold pipe rolling mills. Met. i gornorud. prom.
no.6:34-36 N-D '65. (MIRA 18:12)

TUNIK, A.A., inzh.; KLIMKOVSKIY, S.F., inzh.

Aluminum alloys for heavy-loaded bearings. Mashinostroenie no.
2:98-101 Mr- Ap '64. (MIRA 17:5)

...toxicity of modern pest control agents. O. R. Kinnery (Frank-
 s. Assoc., April, 3, 84-85).--In view of localities where the phos-
 phorus compound is used, the question of adequate protection of
 the user of such toxic materials is discussed. (Official regulations
 are not deemed to be satisfactory and are kept up to date in
 accordance with additional measures, e.g., following, reduction in
 amount of toxic material used, are proposed which may help to reduce
 accidents due to carelessness and mistakes. M. JASMAN.

KLIMYUK, I.G.

Prolonged retention of a foreign body in the esophagus. Vest.
otorin. no.1:98-100 '63. (MIRA 16:9)

1. Is Sarnenskoy uslovy shelenodorozhnoy bol'nitsy L'vov-
skoy shelennoy dorogi.
(ESOPHAGUS—FOREIGN BODIES)

KLIMTSE, I.G.

Case of a chest wound with impaired integrity of the internal
thoracic artery and vein and wounds of the lung and heart.
Khirurgiya no.9:136 '62. (MIRA 15:10)

1. Is Sarnenskoj uslovoj shelesnodoroshnoy bol'nitay L'vovskoy
shelesnoy dorogi.

(CHEST—WOUNDS AND INJURIES)

KLIMYUK, I.G. (Ternopol', ul. Lenina, d.9, kv.63)

Severe closed injury of the abdomen. Klin.khir. no.11:82
N 162. (MIRA 16:2)

1. Sarnakaya uslovaya bol'nitsa L'vovskoy shchekoy dorogi.
(ABDOMEN—WOUNDS AND INJURIES)

ACC NR: AP6036859

SOURCE CODE: UR/0147/66/000/004/0081/0089

AUTHOR: Klimnyuk, Yu. I.; Komarov, A. P.

ORG: none

TITLE: An approximate method for calculating parameters of a detached bow wave

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 4, 1966, 81-89

TOPIC TAGS: supersonic aerodynamics, detached shock wave, supersonic flow, stagnation point, wave drag, axisymmetric flow, one dimensional flow, drag coefficient

ABSTRACT: This paper presents a simplified approximate method for determining the distance between a bow wave front and the nose of the body in supersonic flow, also the additional wave drag due to the formation of the bow wave. This method is a variation of Vinogradov's method (IzVUZ, Aviatsionnaya tekhnika, no. 2, 1963) and makes it possible to introduce a series of universal relations between the distance from the sonic point to the origin of the bow wave along the x-axis and the ordinate of the sonic point, which substantially simplify the calculations and exclude the use of successive approximations. Using the ordinate of the sonic point as a characteristic dimension, all the parameters of the bow shock wave are determined irrespective of the body shape. This technique is shown to be applicable to supersonic axisymmetric and one-dimensional flows over blunted bodies at zero angle

Cord 1/2

UDC: 533.6.011.72

ACC NR: AP6036859

of attack when the bow wave is approximated by the equation of hyperbola and under certain simplifying assumptions. The results show good agreement with experimental data and also with data obtained from precise calculations by Belotserkovsky's method. Orig. art. has: 6 figures and 30 formulas.

SUB CODE: 20/ SUBM DATE: 09Nov65/ ORIG PEF: 014/ ATD PFEES: 5106

Card 2/2

KLIMO Z. KOSICE. O iritačných, utlumových a zanikových javoch v psychiatrii Symptoms of irritation, repression and extinction in psychiatry Neurologie a psychiatrie ceskoslovenska, Prague 1949, 12/6 (269-274)

Psychotic symptoms can be divided into irritative, repressive (depressive) and those of extinction (degenerative). After convulsive treatment, especially ECT, the irritative and repressive symptoms disappear, degenerative one persist. Shock treatment is of use not only in endogenous irritative and repressive symptoms, but also in exogenous mental diseases.

Roubicek - Prague

SO: Neurology & Psychiatry Section VIII Vol 3 No 7-12

KLIMO, Z.

Improvement in encephalitis following electroshock. Neur. psychiat.
czech. 14 no. 5-6:168-174 Dec. 1951. (CML 22:3)

KLIMO, Z.

**Eosinophilia, notes on Thorn test. Bratisl. lek. listy 34 no.12:
1442-1445 Dec 54.**

- 1. Z Psych. klin. PUFUK v Kosiciach, predn. doc. MUDr Z.Klino
(EOSINOPHILIA
thorn test)**

KLIMO, Zoltan; KARKOSKA, Valdimir; LUKASSIEWICZ, Milos

Treatment of depressive states. Cesk. psychiat. 55 no.1:11-13 Feb 59.

1. Psychiatricka klinika UK a Farmakologicky ustav UK, Kosice.
(DEPRESSION, ther.
amphetamine prior to electroshock ther. (Cs))
(AMPHETAMINE, ther. use
depression, admin. prior to electroshock ther. (Cs))
(SHOCK THERAPY, ELECTRIC, in various dis.
depression, with previous amphetamine admin. (Cs))

KLIMO, Z.

Hypoglycemic states in psychiatry. Cesk. psychiat. 55 no.1:47-51 Feb 59.

1. Psychiatricka klinika LFUK v Kosicich.
(HYPOGLYCEMIA, differ. diag.
ment. disord. (Cs))
(MENTAL DISORDERS, differ. diag.
hypoglycemia (Cs))

KLIMO, Z.; ANDRASINOWA, O.; MAJOR, I.

Contribution to the problem of toxico-infectious psychoses. Cesk.
psychiat. 56 no.4:217-220 Ag'60.

1. Psychiatricka klinika lebarskej fakulty university P.J.Safarik
v Kosiciach.

(PSYCHOSES etiol)
(COMMUNICABLE DISEASES compl)
(PSYCHOSES TOXIC)

KLIMO, Z.

Creative activity of Prof. MUDr. Zdenek Myslivecek in Slovakia during
1919-1930. Cesk. psychiat. 57 no.5:293-296 '61.
(BIOGRAPHIES) (PSYCHIATRY hist)

SKODA, Ctirad; KLIMO, Zoltan, prof. dr., vedecky redaktor.

The psychotic process and postpsychotic defect. A study on the problem of its objective differentiation in schizophrenia. Lek. prac. [Biol. lek.] 3 no.6:1-142 '63.

1. Krajska psychiatricka liecebna, Pezinok (for Skoda).

KLIMCHEN, P. P.

Klimochkin, M. M.

"The electric surface treatment of cast iron with spherical graphite." Min. Heavy Machine Building USSR, Central Sci Res Inst of Technology and Machine Building (TsNIIYPash). Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Knizhnaya letopis'
No. 25, 1956. Moscow

"APPROVED FOR RELEASE: 09/18/2001

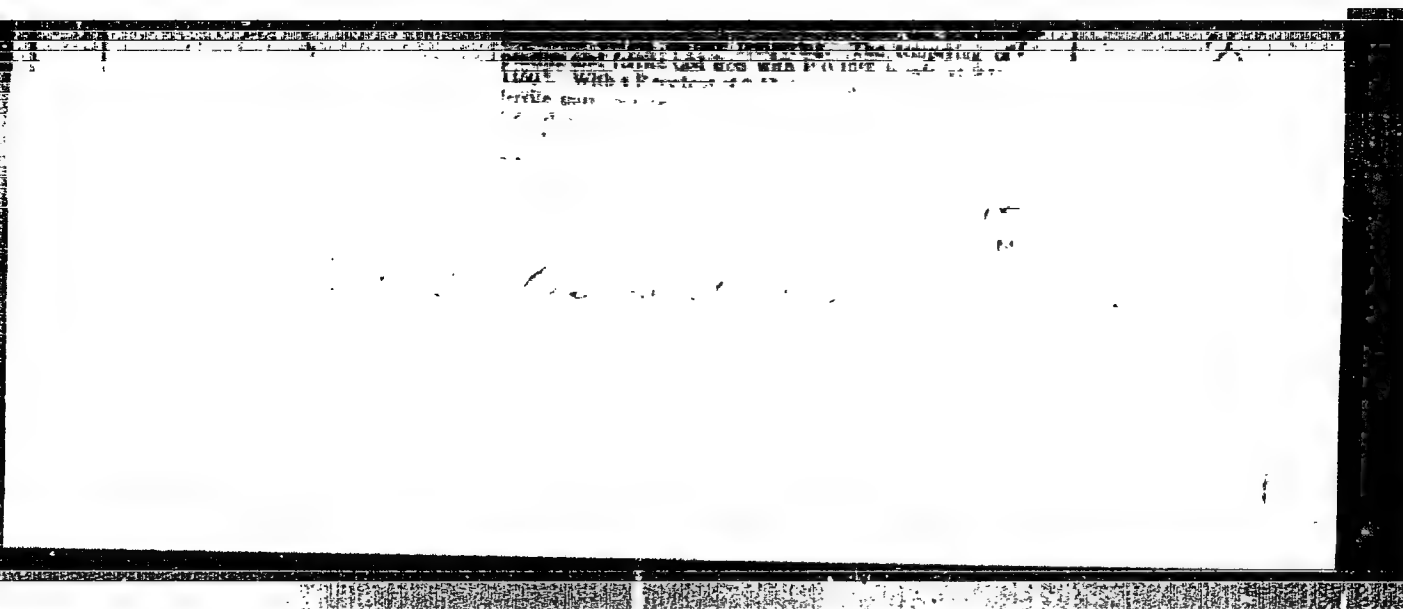
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CIA-RDP86-00513R000723120010-5"

KILMOCHKIN, M.M.; KUTIN, S.D.

Method for the determination of residual austenite in surface-hardened steel. Zav.lab. no.11:1326-1328 '59. (MIRA 13:4)

1. Tsentr. al'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.
(Austenite) (Steel--Analysis)

Klimochkin, m.m.

8(1) PAGE 1 MORE INFORMATION 09/7/86

Scientific research on the properties of materials is continuing to develop rapidly. The results of this research are being used in the design of new materials and in the development of new technologies.

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KLIMCHIKIN, V. V.: Master Geolog-Mineralog Sci (diss) -- "The hydrogeology of the Central Economic Rayon of the Buryat ASSR (sheets M-48-XI and M-48-XII)". Leningrad--Ulan-Ude, 1958. 16 pp (Leningrad Order of Lenin and Order of Labor Red Banner Mining Inst im G. V. Plekhanov, Buryat Geol Admin), 130 copies (KL, No 7, 1959, 122)

KLIMCHEN, V.V.

AUTHOR: Afanas'yev, A. N. SOV/50-58-11-23/25

TITLE: Second Conference on Ground Waters and Engineering Geology in East Siberia (Vtoroye soveshchaniye po podzemnym vodam i inzhenernoy geologii Vostochnoy Sibiri)

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 11, pp 68-69 (USSR)

ABSTRACT: The conference mentioned in the title was held in Chita from June 2 to 7, 1958. It had been organized by the Institut geologii Vostochno-Sibirskogo filiala AN SSSR (Institute of Geology of the East Siberian Branch, AS USSR), the Institut merslotovedeniya im. V. A. Obrucheva AN SSSR (Institute of Ground Frost Science imeni V. A. Obruchev, AS USSR), the Laboratoriya gidrogeologicheskikh problem im. F. P. Savarenskogo (Laboratory of Hydrogeological Problems imeni F. P. Savarenskiy), the Chitinskoye, Irkutskoye and Buryatskoye geologicheskkiye upravleniya Ministerstva geologii i okhrany nedr SSSR (Chita, Irkutsk, and Buryat Geological Administrations of the Ministry of Geology and Protection of Natural Resources, USSR), and the Sosnovskaya ekspeditsiya (Sosnovskaya Expedition). 12 lectures were held at the Plenary Meetings. They dealt with the results and tasks of hydrogeological and engineering-geological exploration.

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Second Conference on Ground Waters and Engineering
Geology in East Siberia

SOV/50-58-11-23/25

of East Siberia, exploitation of natural resources, protection of mineral waters as well as the methods of compiling comprehensive and regional geological and hydrochemical multi-purpose maps. The greatest attention was attracted by the lectures delivered by I. K. Zaytsev "Hydrogeological Multi-purpose Maps of East Siberia 1 : 2,500,000" and two lectures by V. G. Tkachuk "The Mineral Waters of East Siberia" and "The Formation of Thermal Waters of the Sayano-Baykal'skiy Mountainous Region". The Conference consisted of three sections: 1) for general and methodical problems of hydrogeology, 2) for regional hydrogeology, and 3) for engineering geology and ground frost science. 17 lectures were heard in the first section: V. M. Stepanov confirmed the opinion of N. K. Ignatovich, stating that there is a vertical zone distribution in the formation of hydrochemical elements in mountainous regions. 22 lectures were heard in the second section. The losses caused by the outflow of the river bed discharge in the Bratskoye reservoir were submitted to sharp criticism. In the lecture delivered by V. V. Klimochkin (Buryatskoye geologicheskoye upravleniye - Buryat Geological Administration): "On the Condensed Water of

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Second Conference on Ground Waters and Engineering
Geology in East Siberia

SOV/50-50-11-23/25

the West Zabaykal'ye (Transbaykal)" condensed water was proved to increase with rising height of the slopes in certain mountainous regions (up to 30% of the total balance of ground waters). The author of the present paper held a lecture: "On the Ground Water Component in the Selenga River Basin."

The local dependences which were determined for the average annual subterranean discharge in the rivers are indicative of an increase in the discharge with the height and vice versa. The participants' attention was attracted by the lecture held by V. M. Lylo (Irkutsk UOMS). He dealt with the role played by the ground water in feeding some rivers of East Siberia. Despite a certain approximation of his data the role of this discharge is very important. 18 lectures were heard and discussed in the third section. The Conference adopted a very important decision: hydrogeological investigations in East Siberia are to be extended, hydrological laboratories and stations are to be built, the relation between the sub- and superterranean waters is to be investigated, and finally, the role played by the condensation and discharge of ice on

Card 3/4

Second Conference on Ground Waters and Engineering
Geology in East Siberia

SOV/50-58-11-23/25

the earth's surface in the balance of the waters mentioned
is to be determined.

Card 4/4

GRAVE, M.K., kand. geogr. nauk, qtv. red.; ARMAND, A.D., kand.
geogr. nauk, red.; KLIMCHIKIN, V.V., kand. geol.-
miner. nauk, red.; TOKAREVA, T.N., red. izd-va;
SOROKINA, V.A., tekhn. red.

[Relief and geology of the sedimentary cover of the Kola
Peninsula] Rel'ef i geologicheskoe stroenie osadochnogo
pokrova Kol'skogo poluostrova. Moskva, Izd-vo "Nauka,"
1964. 132 p. (MIRA 17:1)

1. Akademiya nauk SSSR. Kol'skiy filial, Kirovsk.

KLIMOCHEVA, L.V.

"Chromosome Morphology in Helianthus annuus L.," Dok. AN., Vol. 27,
No. 6, 1940

All-Union Inst. Plant Industry, Leningrad

KLIRUCHKINA, I. V.

Kliruchkina, I. V. "Water cycle of desert plants of central Kazakhstan,"
Trudy Botan. in-ta im. Kormarova, Eksperim. botanika, Issue 6, 1948, p. 275-94 -
Bibliog: p. 39 items

SO: U-3264, 10 April 53, (Letopia 'Zhurnal 'nykh Statey, No. 4, 1949).

KLIMONOV, Yuriy Stepanovich; GUROV, S., red.; SHLYK, M., tekhn.red.

[A sector of communist labor] Uchastok kommunisticheskogo
truda. Moskva, Mosk.rabochii, 1960. 42 p.

(MIRA 14:2)

1. Starshiy master teplovosostroitel'nogo zavoda imeni V.V.
Knybyahava (for Klimonov).
(Kolomna--Diesel locomotives)

BARTECH, L.I.; KLIMONOVA, A.V.

Organising outings for two-to-three-year-old children in day
nurseries during the fall, winter and spring. Med.sestra 17
no.3:30-33 Mr '58. (MIRA 11:4)
(DAY NURSERIES) (GAMES)

KLIMONTOV M. I.

USSR / Farm Animals. Reindoor.

Q-3

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105725.

Author : Klimontov, M. I.

Inst : Scientific Research Institute of Agriculture
of the Extreme North.

Title : Anatomicotopographical Structure of the Cranial
Laryngeal Nerve in Reindoor.

Orig Pub: Tr. n.-i. in-ta s. kh. Kraynego Sovora, 1956,
3, 130-135.

Abstract: The study of ten cadavers of reindoor (six adult
and four fawns) showed that in 50% of the cases
the cranial laryngeal nerve (CLN) has in its
initial part a thickening of the size of 3x2 mm.
and constant anastomoses with the cranial cerv-
ical sympathetic ganglion. External ramification
of CLN, measuring 0.4-0.5 mm., runs either along-

Card 1/3

KLIMONTOV M.I

USSR / Farm Animals. Reindeer.

Q-3

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105726.

Author : Klimontov, M. I.
Inst : Leningrad Veterinary Institute.
Title : Anatomicotopographical Structure of the Thoracic
and Peritoneal Part of the Vagus Nerve of Reindeer.

Orig Pub: Sb. rabot Leningr. vet. in-t, 1956, vyp. 18,
141-148.

Abstract: A study of 50 reindeer cadavers showed that in the thoracic cavity the branches of the left and right vagus nerves (VN) are asymmetrical. From the thoracic part of VN, branches run towards the heart, pericardium, aorta, pulmonary artery, vena cava, pulmonary vein, lungs, pleura, trachea and the esophagus. On the heart and

USSR/Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40610.

Author : Golesov, I. M., Klimontov, M. I.

Inst : Scientific Research Farm Institute of the Far North Region.

Title : Specific Course of the Foot-and-Mouth Disease in Northern Reindeer.

Orig Pub: Izv. nauchno-tekhn. inform. n.-1. int. s. kh. Krayn. Severa, 1957, No 3, 25-26.

Abstract: The characteristic salivation as it is observed in large horned cattle is lacking in reindeer. Only a small amount of saliva in the form of froth gathers at the mouth corners. At the onset of the disease the animals appear to be weak and feed reluctantly.

Card : 1/3

5

KLIMONTOV, M. I., Cand Biol Sci -- (diss) "The Vagus Nerve of Reindeer and Its Innervation of the Internal Organs (Anatomical Study)." Len, 1957. 18 pp (Min of Agriculture USSR, Len Veterinary Inst), 100 copies (KL, 49-57, 112)

- 22 -

GOLOSOV, I.M., prof.; KLIMONTOV, M.I., kand. biolog. nauk

Prophylaxis of necrobacillosis in reindeer calves. Veteri-
nariia 40 no.4:32-35 Ap '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
Kraynego Severa.

KLIMONTOV, M.I., kand. biolog. nauk

Treating initial stages of necrobacillosis in reindeer. Veterinarika
39 no.4:52-53 Ap '62. (MIRA 17:10)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Kraynego
Severa.

GOLOSov, I.M., prof.; KLIMONTov, M.I.; ZABRODIN, V.A.

Results of testing brucellosis vaccine from strain No.19 on reindeer.
Veterinariia 4k no.12:29-31 D '64. (MIRA 18:9)

1. Leningradskiy veterinarnyy institut (for Golosov, Klimontov).
2. Institut sel'skogo khozyaystva Kraynego Severa (for Zabrodin).

GATAULLIN Shavkat Lutfullovich; IVANOV, A.I., retsenzent;
YEGOROVA, Z.P., retsenzent; CHEBOTAREVA, A.V., red.;
KLIMONTOVICH, V.I., red.

[Study of semiconductors in physics course in secondary
schools; manual for teachers] Izuchenie poluprovodnikov
v kurse fiziki srednei shkoly; posobie dlia uchitelia.
Moskva, Prosveshchenie, 1964. 73 p. (MIRA 18:1)

YASHKIN, Aleksandr Yakovlevich; KLIMONTOVICH, V.L., red.

[Problems and exercises in electrical engineering]
Zadachnik-praktikum po elektrotekhnike. Izd.2. Moskva, Prosveshchenie, 1964. 109 p. (MIRA 18:7)

ARKHANGEL'SKIY, Mikhail Mikhaylovich; KLIMONTOVICH, V.L., red.

[Physics course; mechanics] Kurs fiziki; mekhanika.
Izd- 2., ispr. 1 dop. Moskva, Prosveshchenie, 1965. 447 p.
(MIRA 18:8)

KILMONTOVICH, YU. L.

Kilmontovich, Yu. L., and Fursov, V. S., Influence of interaction between molecules on the inhibition by emission in the classical theory of light dispersion. P. 819

It is pointed out that the term which takes account of inhibition by emission must depend on the thermodynamic parameters in the neutralized Lorenz equations used in the theory of dispersion and absorption of light. This dependence is calculated. The values obtained for the coefficients of refraction and absorption lead to a coefficient of extinction of light which agrees with the value calculated on the basis of the theory of fluctuations.

Moscow State University
May 19, 1949

SO: Journal of Experimental and Theoretical Physics, (USSR) 19, No. 9 (1949)

KLEINOWICH, Yu. I.

"Certain Questions in the Theory of Heterogeneous Nonisothermal Plasma." Sub 17
Oct 51, Moscow Order of Lenin State U ineni N. V. Lomonosov.

Cand. Physics-Mathematics Sci.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sov. No. 400, 9 May 55.

4-10-74 KLIMONTOVICH, Yu. L.

The theory of nonhomogeneous nonisothermal plasmas
Yu. L. Klimontovich (Moscow State Univ.) 74-1

$\alpha = (2kT_e/m)^{1/2}$, where k is the Boltzmann const., T_e the abs. temp. of the electrons, and m the mass of the electron. The function $I(2\alpha/c)$ as $\alpha \rightarrow 0$, $I(2\alpha/c) \rightarrow 1$, and as $\alpha \rightarrow \infty$, $I(2\alpha/c) \rightarrow 0$. It reverses its sign, and consequently the length of period in space, $l = (2ekT_e/m\omega^2)^{1/2} / I(2\alpha/c)^{1/2}$, at this point, becomes infinity, or in other words the plasma becomes homogeneous. This incorrect conclusion has been caused by the omission of the impacts between electrons and atoms. Further analysis shows that when this effect is taken into account, the conclusion arrived at is that a stable space periodicity should exist within a certain range of pressures and currents, when the Debye distance (λ_D), the distance travelled by the electron at an av. thermal velocity during the period of the proper oscillations of the plasma, $T_e = (m/4e^2n)^{1/2}$, where n is the no. of electrons per unit vol. is equal to or less than the mean free path ($\lambda \geq \lambda_D$). The period l depends upon the nature of the gas and also upon the external elec. and magnetic fields. A case is also considered where only a part of the electrons have a directed speed. This case embraces the electron beam passing through the plasma, which has been recently considered by Akhiezer and Pikel'berg (P. Akhiezer, I. Pikel'berg, Zh. Eksp. i Teor. Fiz. 42, 1775 (1962)).

SPECTROSCOPY

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CONCERNING THE SPECTRA OF PARTICLES OF ELASTIC
ACTING PARTICLES

114. Translated from the Russian

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As equation is derived for the spectra of particles

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1. KLIMONTOVICH, YU. L.
2. USSR (600)
4. Quantum Theory
7. Relativistic equation for the quantum function of distribution. Dokl.AN SSSR 87 no. 6, 1952.
9. Monthly List of Russian Accessions. Library of Congress, March 1953, Unclassified.

ZAYTSEV, A.A.; KLIMONTOVICH, Yu.L.

Oscillation of the double layer near the anode in a glow discharge.
Vestnik Moskov. Univ. 6, No.12, Ser. Fis.-Mat., Estestven. Nauk No.8,
59-69 '51.

(CA 47 no.17:8503 '53)

1. Moscow State Univ.

KLINOVICH, YU. L.

USSR/Nuclear Physics - Excitation Spectra 21 Jan 52

"Theory of Excitation Spectra of Microscopic Systems," Yu. L. Klimovich, V. P. Silin, Phys Inst Lenin Lab, Acad Sci USSR, and Moscow State Univ Lenin Lomonosov

"Dokl Ak Nauk SSSR" Vol LXXXII, No 3, pp 361-364

Gives a more complete analogy of the quantum description with classical physics by utilization of the mixed representation for the density matrix $\rho(q, q')$, to obtain the so-called quantum distribution

211985

function $\rho(q, q')$. Discussed method can be applied also to the quantum consideration of transverse waves in plasma. Acknowledges the interest of Prof E. E. Bogolyubov. Submitted by Acad N. A. Leonovich 1 Dec 51.

211985

KLIMONTOVICH, YU. L.

USSR

V Klimontovich, Yu. L. Second quantization in phase space. 1-P/W
Dokl. Akad. Nauk SSSR (N.S.) 96, 43-46 (1954).
(Russian)
MS The author considers a system of particles with two-body
interaction depending on distance only and obtains formulas
connecting the energy and momentum in excited states for
bosons and fermions, one of which generalizes a result of
Tomonaga [Progr. Theoret. Phys. 9, 544-569 (1950); MR
13; 414].
A. J. Coleman (Toronto, Ont.).

Moscow Inst. Aviation Tech.

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APPROVED FOR RELEASE: 09/18/2001

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KLIMONTOVICH, Yu. L.

"Investigating the Spectrum of the Elementary Excitations of Physical Systems by the Method of the Kinetic Equation for the Quantum Function of Distribution," by Candidate of Physico-mathematical Sciences Yu. L. Klimontovich, Voprosy Statisticheskoy Teorii Ravnovesnogo Sostoyaniya Termodinamicheskikh Sistem (Questions on the Statistical Theory of the Equilibrium State of Thermodynamic Systems), No 26, Moscow Aviation Technological Institute, Oborongiz, Moscow, 1955, pp 100-125

This article, written in 1953, deals with the spectra of the excitations of various physical systems. The investigation is based on the kinetic equation for the quantum function of distribution. The determination of the spectrum of excitations permits the finding of the thermodynamic functions of the systems being studied.

SUM. 1287

USSR/Physics - Superconductors

FD-2361

Card 1/1 Pub. 146 - 26/34

Author : Klimontovich, Yu. L.

Title : "Sonic" excitations in superconductors

Periodical : Zhur. eksp. i teor. fiz. 28, 754-756, Jun 1955

Abstract : The author investigates the spectrum of elementary energy excitations in a superconductor within the framework of the new phenomenological theory of superconductivity of V. L. Ginzburg and L. D. Landau (ibid. 20, 1950). He discusses the Ginzburg-Landau system of equations for the "effective" wave function ψ and vector potential A . He considers only the transverse constituent field. He linearizes the nonlinear equations, solves, and finally obtains the critical temperature T_K close to 1° and $T_K \propto \text{constant}$. Four references: e.g. V. L. Ginzburg, ibid. 21, 1951; Ye. M. Lifshits, Russian supplement to Keesom's book 'Helium', Foreign Literature Press, 1949.

Institution : Moscow Aviation Technological Institute*

Submitted : November 15, 1954

* Moskovskiy aviatsionnyy tekhnologicheskii institut

KLIMONTOVICH, Yu. L.

Diamagnetism at semi-conductors. Dokl. AN SSSR 104 no.1:44-46
8 '55. (MLRA 9:2)

1. Moskovskiy aviatsionnyy tekhnologicheskii institut. Pred-
stavleno akademikom N. N. Bogolyubovym.
(Semiconductors) (Diamagnetism)

RESEARCH, VOL. 6

✓8192. ON THE NEW PHENOMENOLOGICAL THEORY OF
SUPERCONDUCTIVITY (V. L. KILIANOV)

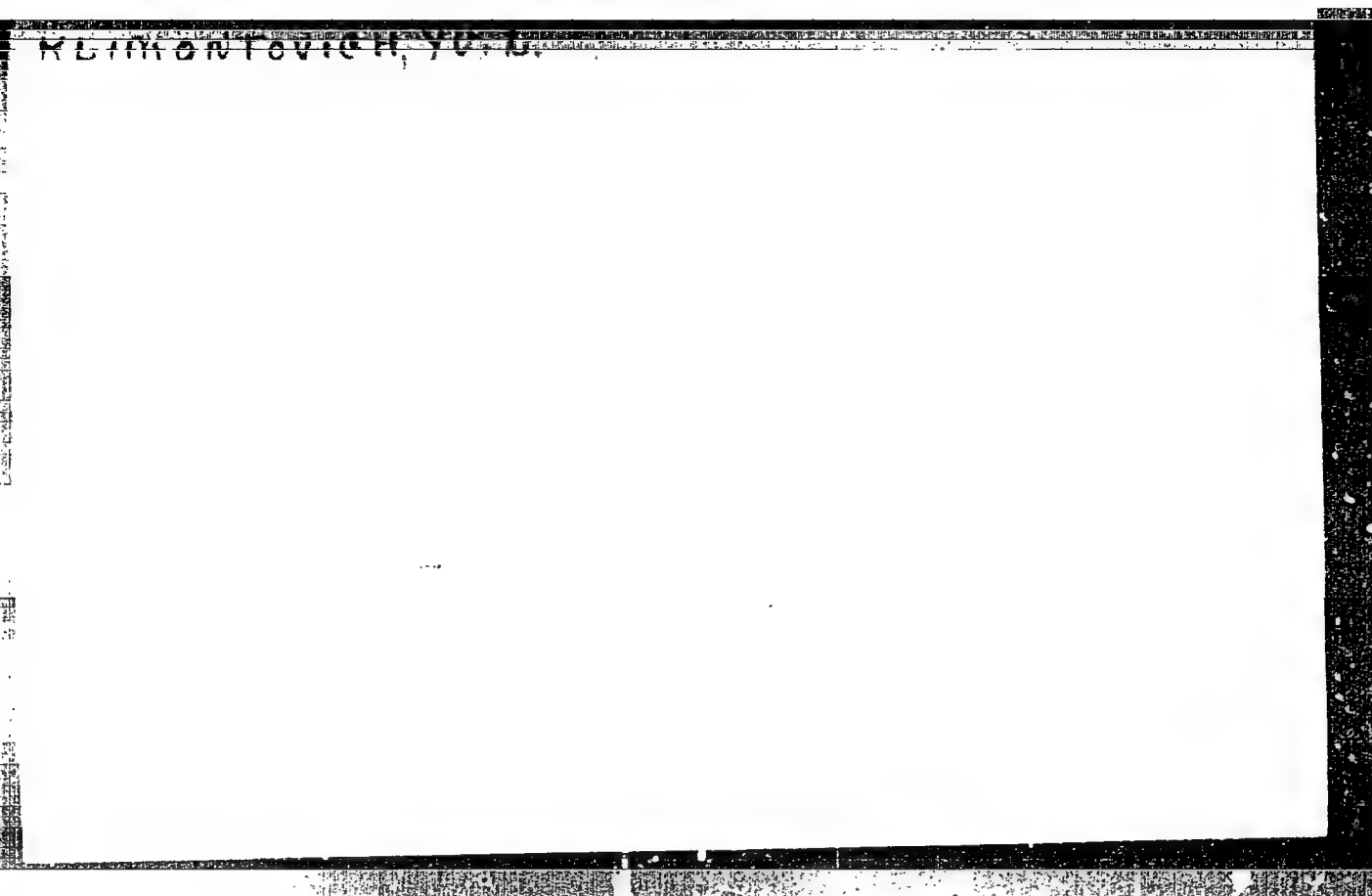
Dokl. Akad. Nauk SSSR, Vol. 194, No. 5, 1974 (1974). In Russian.

In the theory of Ginzburg and Landau (Akad. 1957/1958) the behaviour of superconductors is specified in terms of "effective" wave-functions and vector potentials. In the present note the foundations of that theory are examined. Equations determining effective wave-functions are obtained by an averaging procedure of the ~~many-body~~ equations for electrons in a magnetic field. In this way empirical parameters, connected with the effective wave-functions, are identified in terms of universal constants. A particular solution of equations for effective wave-functions is obtained and discussed in terms of experimental quantities and the dynamics of electrons in a ~~static~~ static field.

R. Kilianov

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APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723120010-5"

KLIMONTOVICH, Yu.L.

SUBJECT USSR / PHYSICS
 AUTHOR KLIMONTOVICH, JU.L.
 TITLE On the Correlation Function for Quantumlike Systems.
 PERIODICAL Zhurn. eksp. i teor. fis, 30, fasc. 5, 977-979 (1956)
 Issued: 8 / 1956 reviewed: 10 / 1956

CARD 1 / 2

PA - 1393

Here the correlation function of a quantumlike system of particles which are in interaction, is determined by the BOGOLJUBOV method. The quantumlike distribution function f_3 is approximated without considering the exchange effects by a binary quantumlike distribution function, and for the correlation function $g(|q|) = \epsilon_{1d} + (2\pi)^{-3} \int (\nu(k) \nu(k') / (1 - \nu(k) \nu(k'))) e^{ikq} dk$ is obtained, where $\epsilon_{1d} = 1 \pm \int f_0(p') f_0(p'') e^{i\vec{q} \cdot (\vec{p}' - \vec{p}'')} dp'$ is the quantumlike correlation function of the perfect gas. $f_0 = 1 / (2\pi\hbar)^3 n_0 [1 \pm \exp(\hbar^2 / 2mkT + 1)]$ denotes the function of the distribution according to momenta in the case of a homogeneous spatial distribution. The minus sign corresponds to the BOSE statistics, the plus sign to the FERMI statistics. The second term in the formula for $g(|q|)$ is due to the interaction of particles. At $\hbar = 0$ the expression for $g(q)$ is identical with the correlation function of a classical system. Furthermore, the correlation function by DEBYE is obtained for a fully ionized gas at $\hbar = 0$. Now the correlation functions for some special cases are given, namely for a totally degenerated BOSE gas (also in the case of small momenta), for a totally degenerated system subjected to the FERMI statistics, and for a plasma.

Klimontovich, Yu. L.

USSR/Statistical Physics - Thermodynamics

D-3

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11400

Author : Klimontovich, Yu. L.

Inst : Moscow State University

Title : Determination of Eigenvalues of Physical Quantities by the Method of the Quantum Distribution Function.

Orig Pub : Dokl. AN SSSR, 1956, 108, No 6, 1033-1036.

Abstract : The quantum distribution eigenfunctions are connected with the wave eigenfunctions in the following manner

$$f_{ik}(p, q) = 1/(2\pi) \int \psi_k^*(q - \frac{1}{2}\hbar\tau) \psi_k \times \\ \times (q + \frac{1}{2}\hbar\tau) e^{-i\tau\epsilon} d\tau. \quad (1)$$

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Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11400

In this work the author obtains an equation for the quantum eigenfunctions of distribution. For example, for the distribution eigenfunctions of the energy it is of the form $Ef = \frac{1}{2} \int [H(\eta - \frac{1}{2} \hbar \kappa, \nu + \frac{1}{2} \hbar \epsilon) + H(\eta + \frac{1}{2} \hbar \kappa,$

$$\nu - \frac{1}{2} \hbar \epsilon)] f(\eta, \nu) + \hbar \left[\sum_{k=1}^N (\nu_k(\nu_k - p_k) + \kappa_k(\nu_k - q_k)) \right] \times \quad (2)$$

$$\times (d\epsilon_k)(d\eta_k)(d\kappa_k)(d\nu_k)$$

where H is the Hamiltonian function of the system under consideration. When $\hbar \rightarrow 0$, Eq. (2) assumes the form $Ef = H(p, q)f$, from which it follows that the eigenvalue is in this case the classical expression for the energy, and the eigenfunction is of the form of a δ function. The equation for the eigenfunctions of the angular momentum are written

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USSR/Statistical Physics - Thermodynamics.

D-3

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11400

$$M_f = [q, p] f - \frac{\hbar^2}{4} [\nabla_q, \nabla_p] f \quad (3)$$

A relativistic equation is given for the eigenfunction of the square of the four-momentum. By way of an example, the author considers the oscillator problem. Expressions are obtained for the eigenvalues of the energy and for the quantum distribution eigenfunctions f_{nm} . The functions f_{nm} are used to determine the quantum distribution function of the oscillator and the equilibrium case. The expression obtained for this function is

$$f(p, q) = A \exp \left[- \left(\frac{m \omega^2 q^2}{2} + \frac{p^2}{2m} \right) / \left(\frac{\hbar \omega}{2} + \frac{\hbar \omega}{e^{\hbar \omega / k T_{eff}}} \right) \right]$$

Card 3/3

KLIMONTOVICH, Yu. L.

56-5-26/55

AUTHOR
TITLE

KLIMONTOVICH, Yu. L., KHOKLOV, R. V.

On the Theory of the Molecular Generator.

(K teorii molekulyarnogo generatora - Russian)

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 5, pp 1150-1155

(U.S.S.R.)

PERIODICAL

ABSTRACT

According to the authors of the paper under review, the method employed by Basov and Prokhorov in their theoretical investigations is insufficient and renders the direct analysis of the complicated processes connected with the performance of a molecular generator more difficult. Therefore the present paper uses a more rigorous position of the problem, on the basis of which the performance of the molecular generator is investigated in great detail. In this context, the authors first of all deal with the case where the molecules bundle has only one velocity ($v=v_0$), and then estimate the influence of the molecules with from v_0 differing velocities from a qualitative point of view. In the analysis of the performance of the molecular generator it is possible to limit oneself to the examination of only two energy states of the molecules which here are described as E_1 and E_2 . For the sake of definiteness, $E_2 > E_1$ is assumed. The state of the molecules of the bundle in the resonator is described by a density matrix. The physical significance of the four matrix elements is given. The primary task is to find an expression for the polarization P of the molecule bundle. In the present paper, this polarization $P(x,t)$ of the bundle is expressed by the solutions of a system of equations gi-

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KLIMONTOVICH, Yu.L.; TEMKO, S.V.

Quantum kinetic equation for a plasma with account of correlation
[with summary in English]. Zhur. eksp. i teor. fiz. 33 no.1:132-
134 J1 '57. (MIRA 10:9)

1. Moskovskiy gosudarstvennyy universitet.
(Quantum theory) (Particles, Elementary)

Klimontovich, Yu. L.

56-4-23/54

AUTHOR: Klimontovich, Yu.L.

TITLE: On the Method of "Second Quantization" in Phase Space
(O metode "vtorichnogo kvantovaniya" v fazovom prostranstve)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4,
pp. 982 - 990 (USSR)

ABSTRACT: In its capacity as independent variable in the statistical description of processes in a system of interacting particles, the number of particles is used in various points of the phase space whose coordinates and momenta are arbitrary time functions for any point of the phase space. For these functions, as well the classical as the quantum equations are derived, from which by means of the averaging from their distribution functions the chain equations for the classical and the quantum distribution functions can be formed. As an illustrative example for the employment of the developed method the equations for the excitation spectrum and the correlation function for a one-particle system with central interaction are developed. Here it is assumed, however, that there exists no close interaction. The given method is also suitable for the treat-

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CIA-RDP86-00513R000723120010-

On the Method of "Second Quantization" in Phase Space

ment of a one-particle system with field-like, partially electromagnetic interaction. A generalization of the given method for the relativistic case is possible. There are 13 Slavic references.

ASSOCIATION: Moscow State University
(Moskovskiy gosudarstvennyy universitet)

SUBMITTED: April 24, 1957

AVAILABLE: Library of Congress

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